

CLAIMS

1. A process for producing a three-dimensionally structured material, which comprises the steps of preparing a liquid composition comprising a block polymer and a liquid medium, and imparting a stimulus to the liquid composition to modify the block polymer, thereby forming the three-dimensionally structured material.
2. The production process according to claim 1, which further comprises a step of solidifying the liquid composition after the modification of the block copolymer.
3. The production process according to claim 1, wherein the block polymer is amphiphilic and forms micelles.
4. The production process according to claim 1, wherein the stimulus to the liquid composition is selected from temperature change, application of an electric field, exposure to electromagnetic wave, pH change, addition of a chemical substance, and concentration change.
5. The production process according to claim 1, which further comprises a step of ejecting the liquid composition to form the three-dimensionally structured material.
6. The production process according to claim 1, wherein a functional substance is included in the

block polymer.

7. The production process according to claim 6, wherein the functional substance is selected from an agricultural chemical, a medicament and a coloring material.

8. The production process according to claim 7, wherein the coloring material includes a pigment.

9. The production process according to claim 1, wherein the block polymer has a repeating structure of a monomer unit composed of an alkenyl ether.

10. An apparatus for producing a three-dimensionally structured material, which comprises a means for imparting a stimulus to a liquid composition comprising a block polymer and a liquid medium to modify the block polymer, thereby forming the three-dimensionally structured material.

11. A liquid composition suitable for use in producing a three-dimensionally structured material, which comprises a block polymer modifiable by stimulus and a liquid medium.

12. The liquid composition according to claim 11, wherein the block polymer is amphiphilic and forms micelles.

13. The liquid composition according to claim 11, wherein the block polymer has a repeating structure of a monomer unit composed of an alkenyl ether.

14. A three-dimensionally structured material
formed by a block polymer modifiable by stimulus.